Figure 1: CETP Genomic Sequence (SEQ ID No:1)

Genbank M32992

```
   1 tgtctttttc tcatagtcat tgtattttgg cctctttcta tttatggcaa cagagagaga

  61 aagcttattc ctagatatat gtatttaagt aaaaataaat gaattcatgg aaacatatta

 121 agcaattatc cagataacat aagggatggc aaaaatggtg cagatggtgg aggggagaca

 181 agtagaagtt ggggtgctct tgttgaatgt ctggctctga actctagagg aggccgcagg

 241 ggctgggcag gaaggaggtg aatctctggg gccaggaaga ccctgctgcc cggaagagcc

 301 tcatgttccg tgggggctgg gcggacatac atatacgggc tccaggctga acggctcggg

 361 ccacttacac accactgcct gataaccatg ctggctgcca cagtcctgac cctggccctg

 421 ctgggcaatg cccatgcctg ctccaaaggc acctcgcacg aggcaggcat cgtgtgccgc

 481 atcaccaagc ctgccctcct ggtgtgtaag tatcagtgca tctgtctgcc ctgccagggg

 541 tcttttcatg gacacccact atgccaggag cctccctggc ctgaagccag ccctgaagcc

 601 ggctgccaca ctagcccaga gagaggagtg ccctgggagg gagatgggct gagtggagct

 661 gtcatcaccc cctcctgacc tcgccttcaa ggtcaagttc tttggtgaga aggtcctagc

 721 tgcattgcaa acagccaggt atagggattt gtgtttgtct gcgacccaga atcactgggg

 781 ttcgagttag ggttcagatc tgagccaggt taggggggtta atgtcagggg gtaaagatta

 841 ggaggttggt gtatatttgg tgttgggggt cactctatgg ccaaagtcag gggttgccat

 901 gagctcaggt gacggaggct ccatcactga ctgtttgtga ctttgccagc tcccctggcc

 961 ctctctgggc ctcagtctct tgctcatata ataagggtat agggaggcta aatgatacaa

1021 tttctaaaat agagtatcgc caagttcaaa agccagaatt atagacccca ggactacaga

1081 cagtgtcaca gcatcgtctg ggtgaggcta gggttagtgt gcggctgggc tcagggctgc

1141 cccatttgct aggatcgtgg ggttcccatg tgtcaggatc cagaggctag ggtatgatca

1201 ggatctctag ctggggtcag ggtcagagct ctctgtgtcc cctagaattg ccatcaacct

1261 taaacccaga ggaggcccag tccaacccct cagctttaag acctgggagc ctcatctcag

1321 agaggctgag tcatggccaa ggcagttggg gtgggagcag ggggcttggt gtgggcctgc
```

1381 agccctcatc cactgccctc cctctagtga accacgagac tgccaaggtg atccagaccg

1441 ccttccagcg agccagctac ccagatatca cgggcgagaa ggccatgatg ctccttggcc

1501 aagtcaagta tgggttgcac aagtgagtcg ggcctcgggt gtgacctggc tgggggtagg

1561 gtggcgggag gaacagcctg ggcttccccc agccacaggg aggaaaggca gcagctgggg

1621 gactcaggtc tctccccttg atttggaacc agagcc

Figure 2: CETP Genomic Sequence (SEQ ID No:2)

Genbank M32993

```
   1 ctcttttta aagataggca tttctagata taaatctccc tgtgagcacg gttccctcca

  61 tcttcagcac accagggttg actctctccg ggcgttcttc cctggtcacc tctccccttc

 121 ctctcctctt ctgcctcctc ttccactttt cggtaccctg tgattgattg ggaccaccca

 181 gataacctag gatcatctcc ccacctaccc caaggtcctt aacttaacca tacttcatat

 241 gggtaacacg agttgagtgt ggtacccagg tttgacatgt tgggtaacat atttgcaggt

 301 tctgtggatt aggaggacat tttgggggcc atgattctat cttccaccct cgcctagaca

 361 aaattggagg ctcactcctt gggctccctg gatgaccccc aacatccttc ctcacttcca

 421 ttccttccca gcatccagat cagccacttg tccatcgcca gcagccaggt ggagctggtg

 481 gaagccaagt ccattgatgt ctccattcag aacgtgtctg tggtcttcaa ggggaccctg

 541 aagtatggct acaccactgc ctggtggtaa gcattcctgt cagctgatgc cccatgccct

 601 ggccctctct gggtggaggg ctgaatgagg tctgggtcct tggctctttc caggctgggt

 661 attgatcagt ccattgactt cgagatcgac tctgccattg acctccagat caacacacag

 721 ctgagtatgt gtcaagcgtc ctctggggaa gtgggagctg gactccaggg cttggctcag

 781 cagaggggga ggttgtgcag gcagagggtt ctggggccac caaaggaggc agcctgggaa

 841 gtttgcaggg ttggggaccc cagagctggc caagctcttg actggcctgg gcagcatgtg

 901 gataccatct gatagcggag gctgccctga ggtcatgtcg ggtctccctg cagcctgtga

 961 ctctggtaga gtgcggaccg atgcccctga ctgctacctg tctttccata agctgctcct

1021 gcatctccaa ggggagcgag agtaagtaca ccaccctgtg cccccattcc tgtcgtgccc

1081 atcctgttag tgtgtccacg gcccccctcca ggctcaaccc cacacaggga tgcttgtggg

1141 tggccaaacc tgagggcagc aataccttca gtggggtcat tccatccccc tccatcaata

1201 caccctaaag gctggaaaca acaataacca acagctagta actaacagct attaagaact

1261 tctgttggca aagcactatt ccaagccctt tcatgaatta attgattttg tccttaaaac

1321 caaccctagg atatagattc tgttatcatc ccctttttac atatgggtaa actgagtcac
```

1381 agacaggtta gaaaggaaaa gctcatatct acggagtcga tcctgcattc caagcaccac

1441 actaactcag agataaaact ctagccaagc taagtaactt gctgaggaca cacaactcgc

1501 cactaaggga tgggagtagg acccatttga acccagactt ctctgacccc agaagctgag

1561 ttcctagata ctttactctc ctgcttccca gggtggggct ttttgtcttg gccaacaccc

1621 tctgtcaagg agctgtggta accccattgc acagaggaag ataacaaggt ttggagagtc

1681 cctagtcatg ttaccaatgc caaacctgga aggcagaagg gaactggtgg gtggggtctg

1741 gagaggagcc ctctattcag gccatttttt ctgactctgg agcaagacgg atacatgtat

1801 gaatttggac tctagacacg ttctcgtgtg tgtgacaggt gtgagcgtca caggagctgg

1861 gccctcccga ggaattctgg atggtgccac agttaattct tgggtctgag gctccgtgtt

1921 ctcactgcaa aatgggagtg ataattctta cttcctgagc tacaagagtc agggccaaca

1981 gagccatgaa ggagcctggt acacactagg cgctccatgg atgcacagga ctggtcaggg

2041 gctcattgtg gtgcttgctg ccttcaggcc tgggtggatc aagcagctgt tcacaaattt

2101 catctccttc accctgaagc tggtcctgaa gggacaggtg agtgaggctg gctgactccc

2161 tgtggtccag gccatgccca ggaggctgga tccctttcct ccctgccttt ccctgagaag

2221 gtgccactcc caccttctcc atgtggccag tcccctgtgc cggtccccag cactgccacc

2281 accacgcagc tggaaggagg cactccgtct ggcctccttt cctgcctgga aagcacctgc

2341 tctgtctgcc ccagatctgc aaagagatca acgtcatctc taacatcatg gccgattttg

2401 tccagacaag ggctggtgag tgcgtttctg tctgcatgcc tcagaagaca gcagtgggag

2461 ccagaaagcc acctgctgca ctatgtggcc ttgggactgt cactcttcct gtctaggtcc

2521 catgggctct atctggctct gacacttgat gattagttat gagcatactt tggcaaagct

2581 ctgccccttt ggtgcggctc acaagctgtg tggcgaaggg cttgtctata gaactcagga

2641 caaatgggtg attaagtcca agaggcatcc aagattctcc tggaagtaga ttaggaaaaa

2701 agataattag attgctcaca tggctgggca ctcatccatg tactgtactc tcctatgcag

2761 tacagagcag agctgggttt cagcccaagt cttggactct gctctgaacc aaccttctag

2821 aagggctcta cctacccaga cagacagact tgggaaaaga gagaatgaaa aagtgccaca

2881 cccctccccg cacacccagg tcccactta cagaggggaa cactgaggct ggagggttgg

2941 gtagctgtgt ggatgcaggg gacggtgact cagggcaatt cccccatccc tgaggccctg

3001 cgttgatctt ttcctcctgc agccagcatc ctttcagatg gagacattgg ggtggacatt

3061 tccctgacag gtgatcccgt catcacagcc tcctacctgg agtcccatca caaggtagga

3121 gttgtgggag ggtgggcagg gcccagcttc cccaggggag ttggtccttt tttgtgctct

3181 gacaacccca tcccccagct tcaaccttat ggcagccaag agtcctgggg agctcctcct

3241 cattcctgat gctcctccgc attcctgatg ctgcgaggag ggcaggccac agcgacgtgc

3301 ccctgacccc tctctgcagg caccagggct gcccactaca aggatcccag caaagcacca

3361 gctccttcct agagggctta ttcggcttct gtcatcctct acagcagtgg attgtggccc

3421 cccccagggg gtactgacaa aagctt

Figure 3: CETP Genomic Sequence (SEQ ID No:3)

Genbank No: M32997

```
   1 acatggtgca catgcctgta gtcctagcta cttggtggct gaggtagaca atcgcttgaa

  61 cctgggacgt ggaggttgca gtgagctgag atcgtgccac tgccctccag cctgggcaac

 121 agagtgagac tgtctcaaaa acaaaaaaag aaaagaaaag aaaagaaag tgacttctca

 181 ggtcctaacc ccaaagccac aggtgctggg gaactttcct cggttttcag aagagcagta

 241 gctaagcctg gttcccgtgt catccttgcc tctccagtcc ctcagtggaa agaatcaggg

 301 gccctgagct aggagggttg ctctctgctt cgggaagagc cctggctcac agcaaatttg

 361 gtttctctcc ccaggatatc gtgactaccg tccaggcctc ctattctaag aaaaagctct

 421 tcttaagcct cttggatttc cagtatgtgc tgcagagaag agaaggggggc ggtcaactcc

 481 gcaaacctct ccctggcccc ttggagtcag gcacagggcg gggtgttggt ggggaaatgt

 541 ggccccttte ttctggggca tatgggctga ctgcagggaa gataagaccc tgcctagata

 601 gaatcttcgt ggggaagaag gggctccagg aagaatggag ggctgccagg aagaaggcct

 661 gagctatgag acaaaagcac tggctgctat tcttagagtt tctttcccag gggatgttac

 721 aggaggggggc ccaatggagg gtcaaattat catcgctttt ttatttcagg attacaccaa

 781 agactgtttc caacttgact gaggtaggta gtcttggata gactgggggga aataagtcct

 841 gtgggacctc ctgccttaaa gaaagcaggc ggagggccct aaaggaaatc aggcaaccag

 901 accaaaagaa tgtgaccagg tggtccatgc tgtgtctctt gtgacccttc ttctccctgc

 961 catgtctttt gggagagccc ttgtgttgca aaaatgagag tgtggtggta tggattgggg

1021 tttaggcaga acagtactgg ccaagcagcg ctccctggac ctcaattttc cctctgtgga

1081 atgggctagc aatcctgggc ctccccaggg cgaaggaaag accactcagg aagggcaccg

1141 tctggggcag gaaaacggag tgggttggat gtattttttt cacggatggg catgaggatg

1201 aatgcttgtc caggccgtgc agcatctgcc ttgtgggtca cttctgtgct ccagggagga

1261 ctcaccatgg gcatttgatt gcagagcagc tccgagtccg tccagagctt cctgcagtca

1321 atgatcaccg ctgtgggcat ccctgaggtc atgtctcgta agtgtgggct ggaggggaaa
```

1381 ctgggtgccg aggctgacag agcttcccat ttcacctttt

Figure 4. CETP Genomic Sequence (SEQ ID No:4)

Genbank No: M32998

```
  1 ggatgggttg ggagctcaag ttttgggggca gaagggaatt ttttttggca gcagagtgca

 61 agccctgccg ccaggcaaac tctgctcttc ctcatcctca gaagcacttg ctcactctgc

121 taaatcaaag tgaaacgcat gtttacagaa tattggtcca aaagggtctc agcatctccc

181 actacccagg gtgcagagcc tcgggccggc cttgctcccc aagaagggct gactggggct

241 ctgtcccctc gcccagggct cgaggtagtg tttacagccc tcatgaacag caaaggcgtg

301 agcctcttcg acatcatcaa ccctgagatt atcactcgag atgtgagtac aaagcccccc

361 tcaccagccc ctgttcctgg ggagagaggc ccagacagga ttcctggggt gactgggggc

421 tgttggggag acagacagag gggcctctac cagcttggct ccctcctggt ggcctgggag

481 tcagcccagc tcgcccctct ctcctactgc ccctcccttc agggcttcct gctgctgcag

541 atggactttg gcttccctga gcacctgctg gtggatttcc tccagagctt gagctagaag

601 tctccaagga ggtcgggatg gggcttgtag cagaaggcaa gcaccaggct cacagctgga

661 accctggtgt ctcctccagc gtggtggaag ttgggttagg agtacggaga tggagattgg

721 ctcccaactc ctccctatcc taaaggccca ctggcattaa agtgctgtat ccaagagctg

781 cggagtcctt cttctgtggc tggcgggtag aggggggggg aagggattgt ctcaccagtg

841 ccgtccacct cttttcagcc cttccaagca gctgcccccca aaccctccaa gctt
```

Figure 5: CETP Alleles

Intron 1 (707):

Allele 1: GTTCTTTGGT <u>G</u> AGAAGGTCCT (SEQ. ID. No:5)

Allele 2: GTTCTTTGGT <u>A</u> AGAAGGTCCT (SEQ. ID. No:6)

Intron 8 (3707):

Allele 1: TGGCCTGAAC <u>C</u> TGATCGCGGACC (SEQ. ID. No:7)

Allele 2: TGGCCTGAAC <u>T</u> TGATCGCGGACC (SEQ. ID. No:8)

Intron 8 (3946):

Allele 1: GATGATCTAG <u>A</u> GGGGCGGGGG (SEQ. ID. No:9)

Allele 2: GATGATCTAG <u>T</u> GGGGCGGGGG (SEQ. ID. No:10)

Promoter (VNTR):

GAAA and GAA repeats between -2144 and -1974 from translational start site. Alleles are defined by variation in size.

Insertion (307):

Allele 1: GAATGGAGGG AGGGCCTGGC (SEQ. ID. No:11)

Allele 2: GAATGGAGGG <u>CTGCCAGGAAGAAGG</u> AGGGCCTGGC (SEQ. ID. No:12)

Intron 15 (493):

Allele 1: AGCCCAGCTC <u>G</u> CCCCTCTCTC (SEQ. ID. No:13)

Allele 2: AGCCCAGCTC <u>A</u> CCCCTCTCTC (SEQ. ID. No:14)
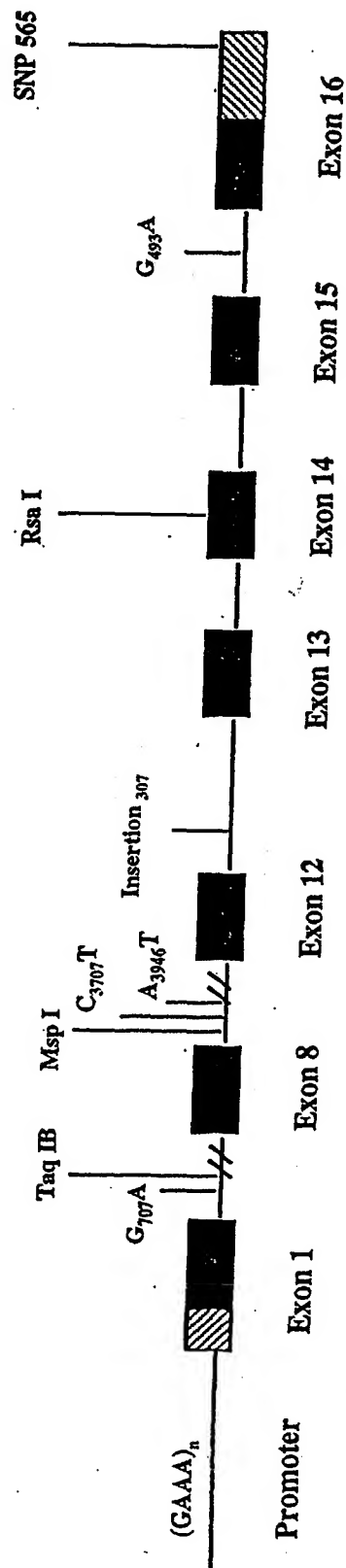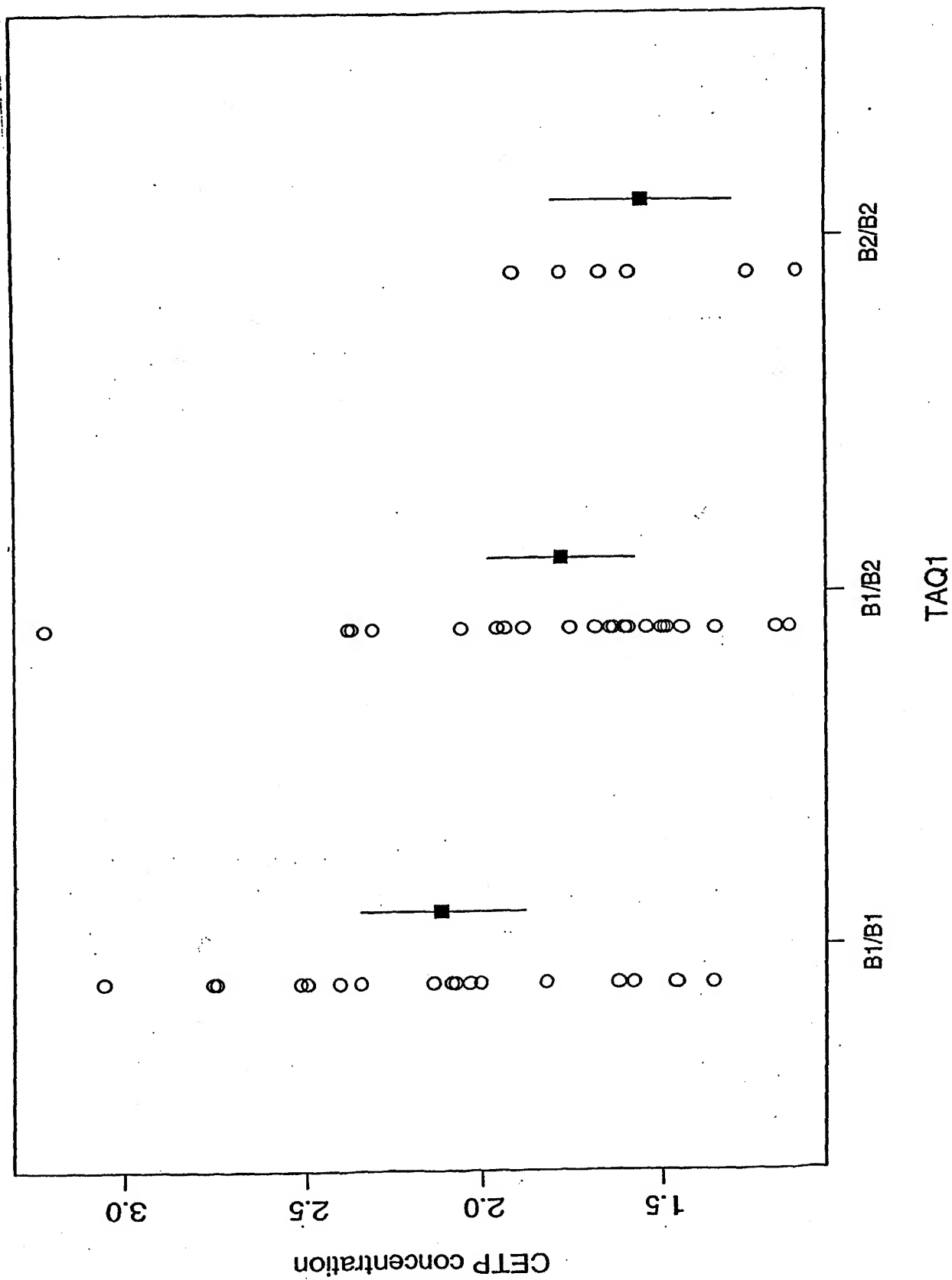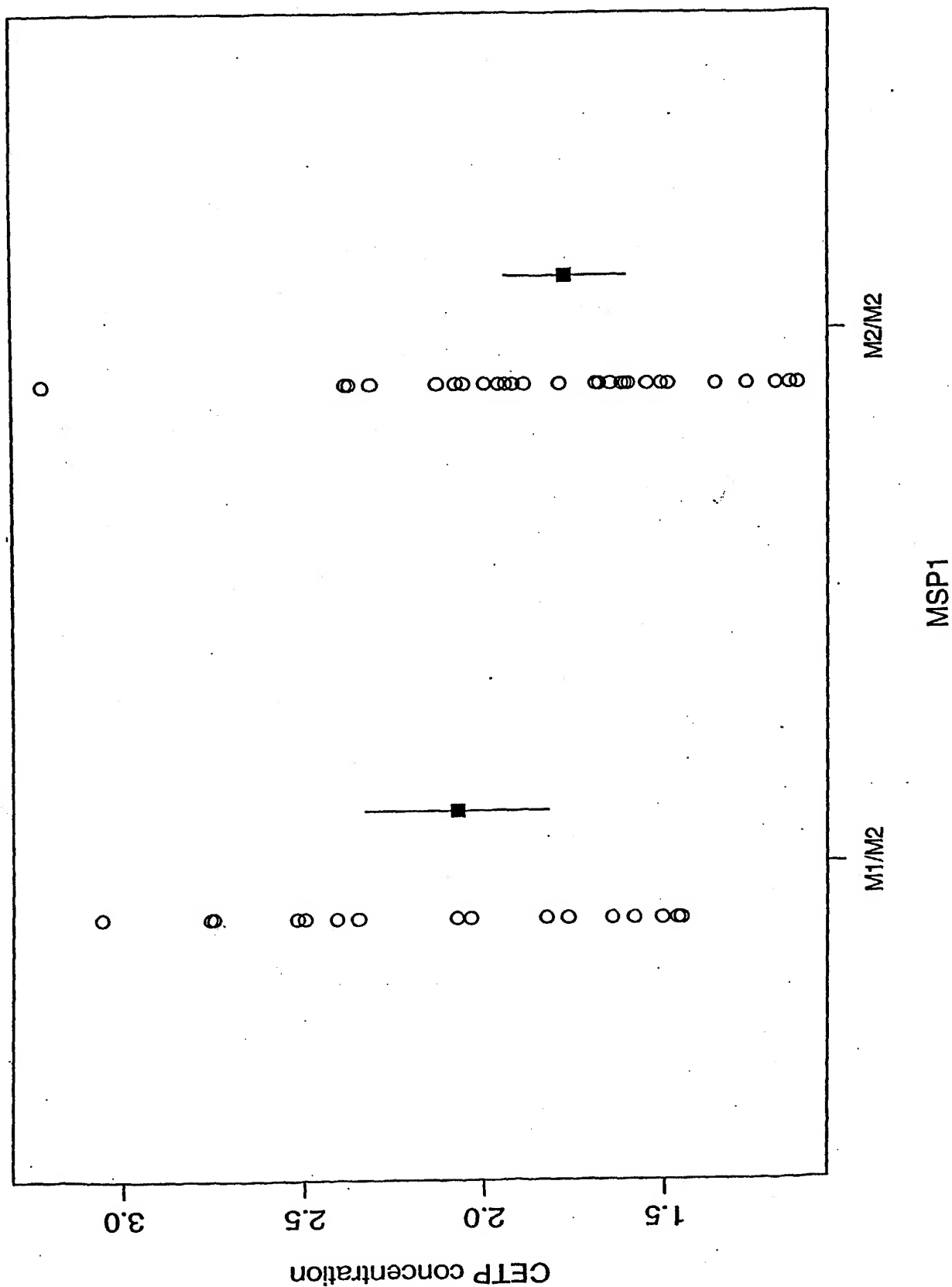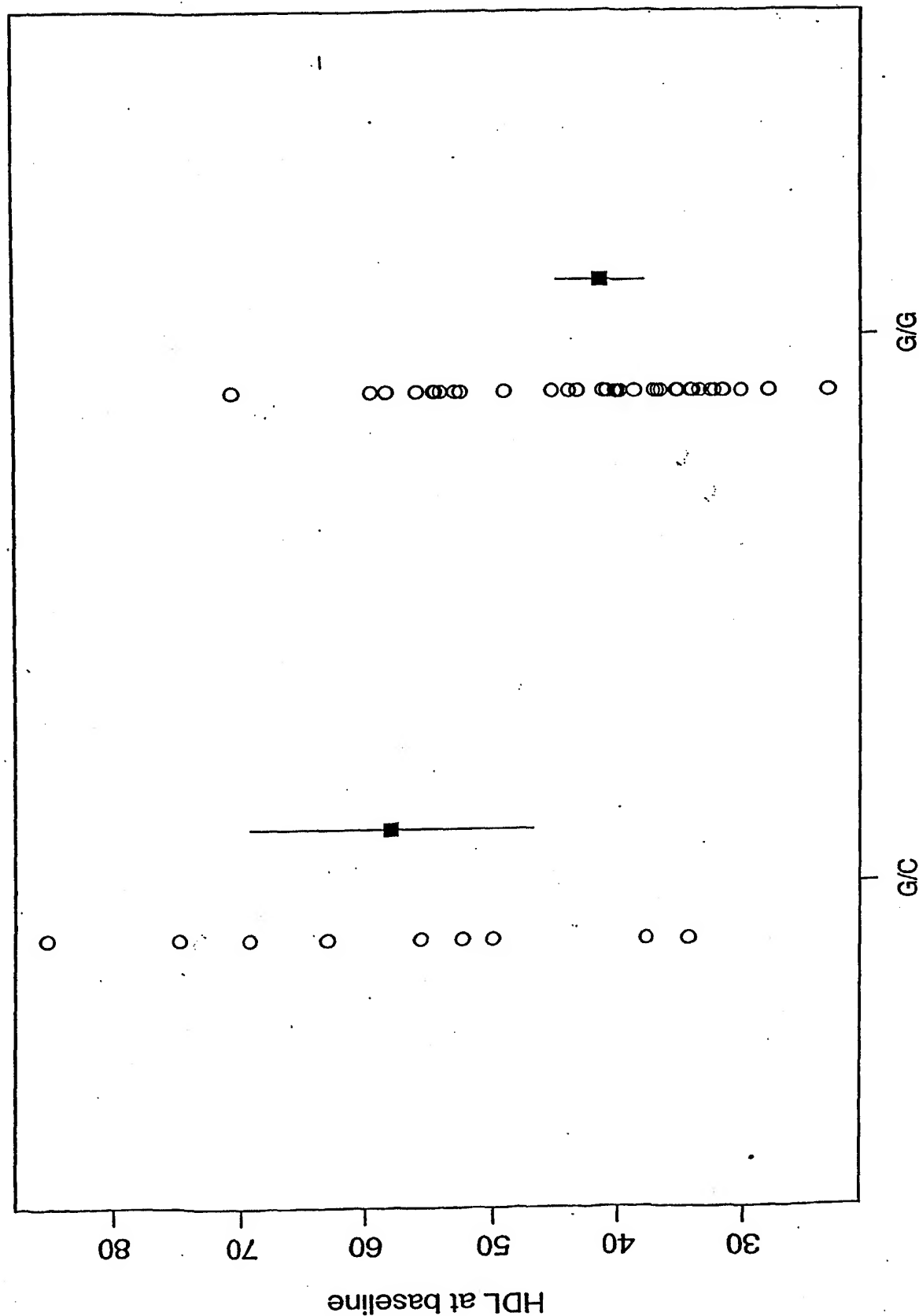
Figure 6.

CETP Polymorphisms

Figure 7

Figure 8.

CETP concentration (y-axis): 3.0, 2.5, 2.0, 1.5

MSP1 (x-axis): M1/M2, M2/M2

Figure 9

Figure 1D.

number of 1121 haplotypes

CETP concentration

Figure 11

number of 2212 haplotypes